In the Claims:

Please amend claim 17. This listing of claims will replace all prior versions and listings of claims in

the application:

1. (Previously Presented) A mechanism that can maintain a constant force comprising:

an input groove;

an output groove;

said input groove operably coupled to said output groove;

an input cable secured to said input groove;

an output cable secured to said output groove;

said input cable adapted to be secured to a source of force; and

said output cable adapted to output a constant force.

2. (Original) The mechanism of claim 1 wherein said input groove spirals outwardly in a direction that

is opposite to a direction that said output groove spirals outwardly.

3. (Original) The mechanism of claim 1 wherein said input groove and said output groove are

positioned back-to-back.

4. (Original) The mechanism of claim 1 wherein said input groove spirals outwardly with an ever

increasing radius and the output groove spirals outwardly with an ever increasing radius.

5. (Original) The mechanism of claim 1 wherein said input groove spirals outwardly in a counter-

clockwise manner and said output groove spirals outwardly in a clockwise manner.

6. (Original) The mechanism of claim 1 wherein said input groove spirals outwardly in a counter-

clockwise manner and said output groove spirals outwardly in a clockwise manner and said input groove

is mounted on a back of said output groove.

7. (Original) The mechanism of claim 1 wherein said input groove spirals outwardly and said output

groove spirals outwardly, in a manner such that said output cable produces a constant output force.

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- 8. (Previously Presented) The mechanism of claim 1 in combination with a linear extension spring to provide a source of force.
- 9. (Original) The mechanism of claim 1 wherein said shape of at least one of the input groove and the output groove is defined by a torque profile.
- 10. (Original) The mechanism of claim 1 wherein said shape of at least one of the input groove and the output groove is defined by a torque profile which is parabolic.
- 11. (Original) The mechanism of claim 1 wherein said shape of at least one of the input groove and the output groove is defined by a torque profile that is a composite of a line, a constant, and a curve that is tangent to the line and the constant.
- 12. (Original) The mechanism of claim 1 wherein said input groove and said output groove are torsionally coupled together.
- 13. (Canceled)
- 14. (Original) A mechanism that can maintain a constant force comprising:

an input groove;

an output groove;

said input groove operably coupled to said output groove; and

wherein said input groove spirals outwardly in a counter-clockwise manner and said output groove spirals outwardly in a clockwise manner and said input groove is operably coupled to a back of said output groove.

- 15. (Original) The mechanism of claim 14 including an adjustable spring end plug operably connected to a cable mounted in said input groove.
- 16. (Original) The mechanism of claim 14 including an adjustable spring end plug operably connected to a cable mounted said input groove, which adjustable spring end plug has an adjustable spring constant.

- 17. (Currently Amended) A spring end plug comprising:
  - a plug;
  - a thread described on said plug;
  - a spring
  - said plug adapted to be mounted onto [[a]] the spring with said thread adapted to be screwed on to the spring; and
  - a mechanism that is adapted to allow a load to be applied through the plug:
  - wherein a counter force applied by the spring in response to the load is adjustable by

repositioning the plug along the spring.

- 18. (Original) The spring end plug of claim 17 wherein said plug has a flat side adapted to be located away from a spring and said mechanism is located in a center of said flat side.
- 19. (Original) The spring end plug of claim 17 which can be used to adjust the spring constant of a spring by rotating the end plug relative to a spring.
- 20. (Original) The spring end plug of claim 17 having a cylindrical wall with said thread mounted on one of an inside of said cylindrical wall and an outside of said cylindrical wall.
- 21. (Canceled)

- 22. (Previously Presented) A mechanism that can maintain a constant force comprising:
  - a pulley including an input groove and an output groove;
  - an input cable having a first end coupled to the input groove and a second end connected with a spring;
  - an output cable having a first end coupled to the output groove; and a second end extending from the first end;
  - wherein the pulley is adapted to transfer a constant force to the second end of the output cable; and
  - wherein the input groove and the output groove are shaped according to a characteristic of the spring.
- 23. (Previously Presented) The mechanism of claim 22, further comprising:
  - an adjustable end plug connected between the input cable and the spring;
  - wherein the adjustable end plug includes a helical groove within which a coil of the spring is receivable; and
  - wherein the adjustable end plug can be threaded along the coil of the spring to adjust the characteristic of the spring.